

PUMP BEARINGS

Exalto *UK*
BRITISH MADE WATER LUBRICATED BEARINGS

PART OF THE



GROUP

A close-up photograph of several interlocking metal pump components, likely impellers or vanes, arranged in a circular pattern. The components are made of polished metal, showing reflections and a smooth finish. The perspective is from above, looking down into the circular openings of the components.

**“THE PUMP AND INDUSTRY KNOWLEDGE WITHIN
THE COMPANY IS EXCELLENT AND GIVES US THE
CONFIDENCE THAT REQUESTS WILL BE ANSWERED
INCLUDING ALL THE RELEVANT TECHNICAL
INFORMATION WE REQUIRE.”**

CELEROS CLYDE UNION PUMPS

WELCOME TO EXALTO BEARINGS UK

Since 1996, Exalto UK has been manufacturing the highest-quality rubber-lined and composite cutlass bearings for the pump and marine industries. Nobody knows bearings better.

We're a proudly British company, trusted by our long-standing customers to create custom-made bearings for the world's biggest pump manufacturers and repair companies. Not least because our modular production tooling system means non-standard items can be produced with little or no additional tooling costs.

All pump bearings are made to order in our in-house workshop, and we specialise in creating non-standard sizes up to 900mm in length, 270mm ID and 320mm OD.

Exalto Bearings are now part of the Graphite Metallizing Group in the USA, who specialise in bearings and products manufactured using Graphalloy®, a unique graphite/metal alloy suitable for use in the toughest conditions. The combined expertise of GMC and Exalto mean we can offer our pump customers a complete package of bearing solutions to suit any application.


Above all, you'll enjoy a professional, dedicated service from our team, who service customers old and new in over 40 countries worldwide.

DISCOVER MORE ABOUT OUR PUMP BEARINGS AND RELATED PRODUCTS
OVER THE FOLLOWING PAGES OR, TO FIND OUT MORE ABOUT OUR SERVICES,
CALL US ON +44 (0)1332 340 501 OR VISIT WWW.EXALTO.CO.UK.

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The background of the image shows a close-up of various industrial components, likely pump parts, arranged on a blue surface. Several circular metal plates with multiple small holes are visible, some with yellow handwritten labels like '1.75', '1.5', and '60'. The image is slightly blurred, emphasizing the text overlay.

“WE HAVE ALWAYS FOUND EXALTO TO BE FORWARD THINKING, PRO-ACTIVE AND A VERY PROFESSIONAL COMPANY AND HAVE NO HESITATION IN ENDORSING THEM”

ROBERT MORRISON, REGIONAL MANAGER SPARES & SERVICE EUROPE, AFRICA & LATIN AMERICA TORISHIMA PUMPS

PUMP BEARINGS

There's a reason why world-leading OEMs and repair centres in the water, oil and gas industries trust us: our expertise. We're a tight team with over 30 years of experience in the pump and bearing industries. Because of our experience in these industries we are able to custom make our water lubricated bearings to suit your requirements in a range of sizes, quantities and materials as listed below. Additionally we may be able to offer you an alternative material as an upgrade or to improve pump efficiency.

SHELL MATERIALS:

- SS316L
- Cast iron
- UNS31803 duplex
- Mild steel
- UNS32760 super duplex
- Aluminium bronze
- UNSS4200
- Austenitic iron
- Monel K400
- CuSn7 / CC493K / SAE660
- Monel K500
- GRP or phenolic

LINING MATERIALS

- Nitrile rubber
- Viton fluoroelastomer
- EPDM
- Composites
- Engineered Polymers

NON-STANDARD BEARINGS

PUMP BEARINGS

We precision-engineer customised, non-standard bearings for pump applications, working from technical drawings for designs including:

- Flute shapes, with helical flutes and annular grooves
- Special profile shells up to 900mm L, 270mm ID, 320mm OD
- Flange bearings, manufactured to specification

OUR COMMITMENT TO QUALITY

As an ISO9001:2015-accredited company, we adhere to the highest international quality management standards, and we have the experience of a team whose responsibility is to check outgoing orders. Thus, every one of our custom-made bearings is crafted with the same commitment to quality as our standard bearings.



GRAPHALLOY®

In 2016 we became part of the Graphite Metallizing Group, a long-established American company who specialise in the manufacture of products using Graphalloy – a unique graphite/metal alloy which is used the world over to solve the toughest of pump applications.

Originally developed over 100 years ago, Graphalloy was quickly found to possess outstanding mechanical properties. Today this bearing material is widely used for bearings, bushings, wear rings, thrust washers, friction discs and seals, in conditions where metals and plastics fail

Key features of this remarkable material include:

Self-Lubrication – it can handle low lubricity fluids such as light hydrocarbons, liquefied gases and hot water in which metallic bearings can wear excessively

Dry Running – survives dry starts, flashing and loss of suction for prolonged periods without damage

Extreme Temperatures – continues to perform in applications at cryogenic temperatures to -450°F without becoming brittle or seizing, up to 1000°F+, well above the limits of plastic, surviving thermal shock

Wet – self-lubricating so there is no additional lubricant to wash away, it resists attack by most corrosive liquids such as Sulfuric Acid, Hydrochloric Acid, Chlorine Water and caustics

Non-Galling – survives high speed contact that would gall metal parts – it permits closer running clearances between rotating parts resulting in lower shaft vibration

Improved Efficiencies – allows closer running clearances which can provide higher pump efficiencies through reduced vibration

Dimensionally Stable – maintains dimensional stability when submerged, under load and over wide temperature ranges providing a constant running clearance



We will stock Graphalloy material as well as machine it in-house for our European customers meaning improved service and turnaround on orders that would previously have been fulfilled out of the US. The addition of Graphalloy to our product portfolio means we have the combined expertise of both companies within one group, allowing our customers access to the best bearing solution possible.



“THE COMBINED BEARING EXPERTISE OF BOTH EXALTO AND GRAPHALLOY MEAN WE CAN OFFER OUR CUSTOMERS A BROADER PORTFOLIO OF PRODUCTS AND BEARINGS TO SUIT ANY APPLICATION”

EBEN WALKER, PRESIDENT, GRAPHITE METALLIZING HOLDINGS INC



“WE HAVE ENJOYED MANY YEARS OF BUSINESS WORKING WITH EXALTO AND THE LEVEL OF SERVICE WE HAVE RECEIVED HAS ALWAYS BEEN EXCELLENT. ON A NUMBER OF OCCASIONS THEY HAVE HELPED US BY MANUFACTURING BEARINGS ON A QUICK TURNAROUND.”

INTEGRATED WATER SERVICES WORKSHOP MANAGER

SERVICES & FACILITIES

SERVICE & FACILITIES

In our workshop our experienced team uses both conventional lathes and modified machinery, including centreless grinding machines, internal grinding machines, drilling and milling equipment to create bearings of all specifications. Recently, the workshop has undergone a series of changes that will enable us to increase our capacity whilst maintaining the quick shipment and quality standards our customers are used to.

Manufacturing optimization projects aimed at constantly improving our manufacturing methods in line with technical advances have become a standard team procedure.

Modern, high feed, efficient tooling is being introduced in conjunction with precision machinery such as the CNC XYZ1630 Lathe which will ensure we can do everything possible to respond to the ever increasing demand for reduced lead times from our customers.

Our team of knowledgeable engineers, from apprentice level to seasoned Plant Engineers with 40+ years' experience in engineering, have a vast knowledge of bearing manufacture.

This experience plus our extensive tooling means we routinely manufacture:

Special flute shapes/patterns (from straight flutes to left/right start spiral flutes)

Special profile shells

Grooves

Chamfers

Keyways

Flanges

Externally cut screw threads

For a quick, competitive quote, simply send us a drawing or dimensional request.



NON-BEARINGS & COUPLING BUSHES

Our facilities – in particular our modular production tooling system - also enables us to manufacture non-bearing products, such as coupling bushes with straight-turned and spherical outside diameters, in all-Nitrile and brass-insert designs.



RE-LINING & TECHNICAL SUPPORT

We're always happy to help with advice and support to give you complete peace of mind. Plus, we offer a comprehensive re-line service. This can be cheaper and quicker than bearing replacement, and we'll always advise if this is your best option.

WRAS DRINKING WATER BEARINGS

In 2012, we were awarded WRAS approval for our new, composite Maritex AquaPure material. So, we can now offer specialised water-lubricated bearings for drinking water pumps for operating temperatures up to 23°C.

Covering submersible borehole pumps, booster pumps and vertical line shaft drinking water pumps, Maritex Aquapure boasts lubricity approaching PTFE – but with none of the frustrating creep usually associated with it.

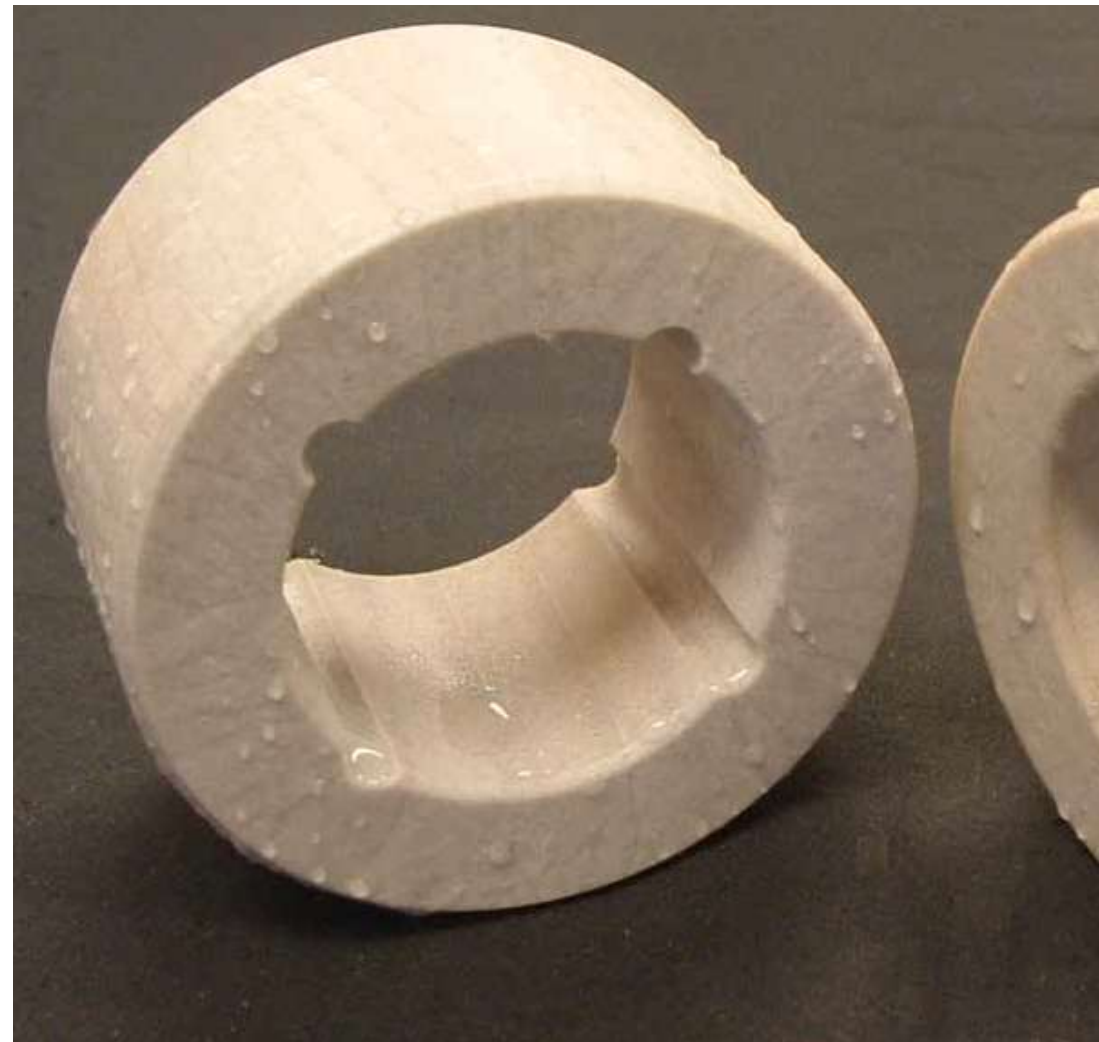
It offers:

- Practically zero moisture absorption
- Excellent compressive strength and toughness
- Strong chemical resistance
- Good low start and dynamic friction

With such benefits, our drinking water bearings are fit for a wide range of purposes, from high-speed pumps to slow-turning, heavy-loaded and mandatory zero-grease applications.

Graphalloy also have a grade of material tested to WRAS approved requirements.

TO FIND OUT MORE ABOUT OUR WRAS-APPROVED DRINKING WATER BEARINGS, CALL US ON +44 (0)1332 340 501 OR VISIT WWW.EXALTOUK.COM





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